

Bhagyawanth Ningappa

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📧 Bhagyawanth Ningappa 📱 Bhagyawanth1729 🌐 Portfolio

Summary

Computer Science undergraduate with strong foundations in software engineering principles and hands-on experience in systems programming, database management, and full-stack development. Skilled in C, Java, Python, and SQL, with proven ability to quickly learn new technologies, solve complex problems, and build scalable solutions

Education

Indian Institute of Information Technology, B.Tech in Computer Science Nov 2022 – July 2026

- **Coursework:** Operating Systems, Data Structures and Algorithms, Computer Networks, DBMS, OOPs in Java, Programming in C, Machine Learning, Artificial Intelligence, Design and Analysis of Algorithms

Projects

Bank Management System | (Java, MySQL, JDBC)

📁 GitHub

- Developed a console-based system for user registration, balance inquiries, fund transfers, deposits, and withdrawals.
- Utilized Object-Oriented Programming principles (inheritance, polymorphism) and JDBC for database integration.
- Implemented exception handling for secure data processing and optimized data retrieval for faster response times.

Pharmacy Management System 📁 GitHub

- Developed a comprehensive system for managing pharmacy operations, including inventory tracking, billing, and customer records.
- Implemented features such as stock level monitoring, expiry management, and automated reordering.
- Integrated e-prescription validation, drug interaction checks, and compliance with healthcare regulations.
- Designed a user-friendly POS (Point of Sale) system for fast and secure transactions.
- Utilized data analytics for sales, inventory performance, and customer insights.

Plant Disease Detection Model | (Python, TensorFlow, OpenCV, Machine Learning) 📁 GitHub

- Trained a convolutional neural network (CNN) using TensorFlow to classify plant diseases from leaf images.
- Preprocessed image data using OpenCV to enhance features and improve model accuracy.
- Developed a Python-based application to demonstrate the model's capability for real-time classification.

Custom Linux Shell | (C, Linux)

- Developed a command-line shell from scratch to understand core operating system concepts.
- Implemented process creation and management using Linux system calls (fork, execvp, waitpid).
- Designed a parser for handling commands and arguments, demonstrating understanding of systems programming.

Skills Summary

Languages: C, Java, SQL, Python, Kotlin, LaTeX

Frameworks: Spring Boot

Databases: MySQL, PostgreSQL,

Tools & OS: Linux, Git, MySQL Workbench

Cloud & Analytic: Google BigQuery, Looker Studio, SQL Analytics.

CERTIFICATIONS

- **One Roadmap Skill Certification - SQL** Certificate
- **HACKERRANK - SQL(Intermediate)** Certificate
- **Google Cloud Certification**

ACHIEVEMENTS

- **Google Cloud Certification** 2025
Earned *BigQuery for Data Analysts* credential from Google Cloud Platform.
Key Skills Gained:
 - Data querying and optimization in BigQuery, advanced SQL techniques for analytics, data visualization with Looker Studio, and performance tuning with cost optimization strategies.
- **Secured Rank 7 in MTP:** Product Test Series, a national-level competition by E-Cell, IIT Guwahati, focused on aptitude, SQL, and data-driven problem-solving.